SIEMENS

Data sheet 3VA1220-5EF32-0AA0



circuit breaker 3VA1 IEC frame 250 breaking capacity class M Icu=55kA @ 415V 3-pole, line protection TM240, ATAM, In=200A overload protection Ir=140A...200A short-circuit protection Ii=5...10 x In nut keeper kit

Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	TM240
Protective function of the overcurrent release	LI
Number of poles	3

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	500 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	42 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14 W
Mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofittable	No

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Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No
Net weight	1.607 kg

Electricity

Max. rated operational voltage of the size of the circuit-breaker	250 A
Courant permanent assigné Iu	200 A
Operating current	
• at 40 °C	200 A
• at 45 °C	200 A
• at 50 °C	200 A
• at 55 °C	194 A
• at 60 °C	188 A
• at 65 °C	182 A
• at 70 °C	176 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	M
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 690 V	10 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 690 V	5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	76 kA
• at 690 V	17 kA

Adjustable parameters

Adjustable response value current / Ig min.	140 A
Adjustable response value current / Ig min.	200 A
Short-term delayed / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / Ii min.	1 000 A

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Adjustable response value current / Ii max.	2 000 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design	
Height [in]	6.2 in
Height	158 mm
Width [in]	4.1 in
Width	105 mm
Depth [in]	2.8 in
Depth	70 mm

Connections	
Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8

Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0

Accessories	
Product extension / optional / motor drive	Yes

Environmental conditions	
Protection class IP / on the front	IP40
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates	
Reference code / acc. to DIN EN 81346-2	Q

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General Product Approval					EMC
CCC	VDE	Miscellaneous	KC	EAC	RCM

Declaration of Conformity	Test Certificates			Shipping Approval	
EG-Konf.	Type Test Certificates/Test Report	Miscellaneous	Special Test Certificate	ABS	BUREAU VERITAS

Shipping Approval			other
GL	LRS	RMRS	Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1220-5EF32-0AA0

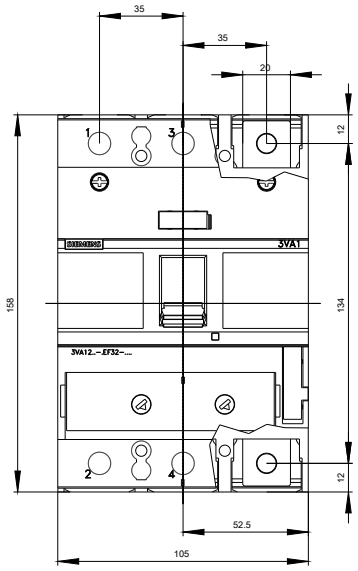
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA1220-5EF32-0AA0

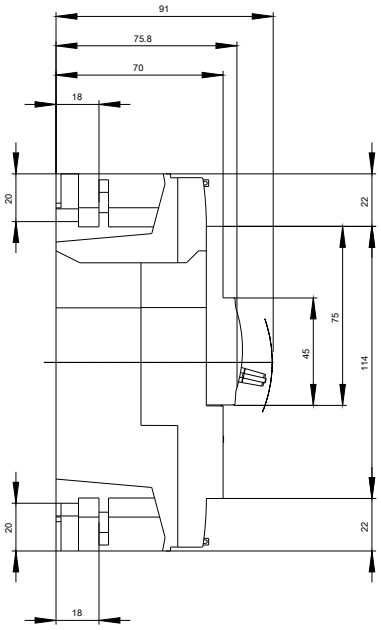
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1220-5EF32-0AA0

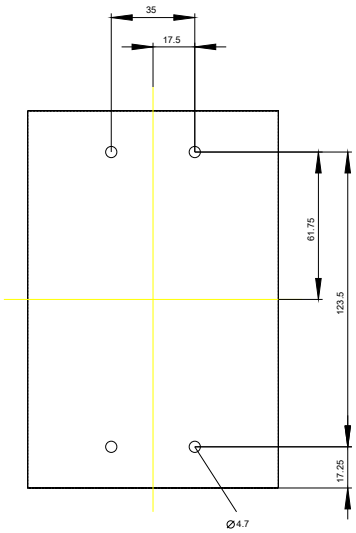
CAx-Online-Generator
http://www.siemens.com/cax

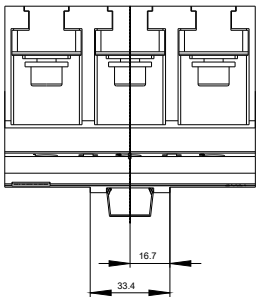
Tender specifications
http://www.siemens.com/specifications

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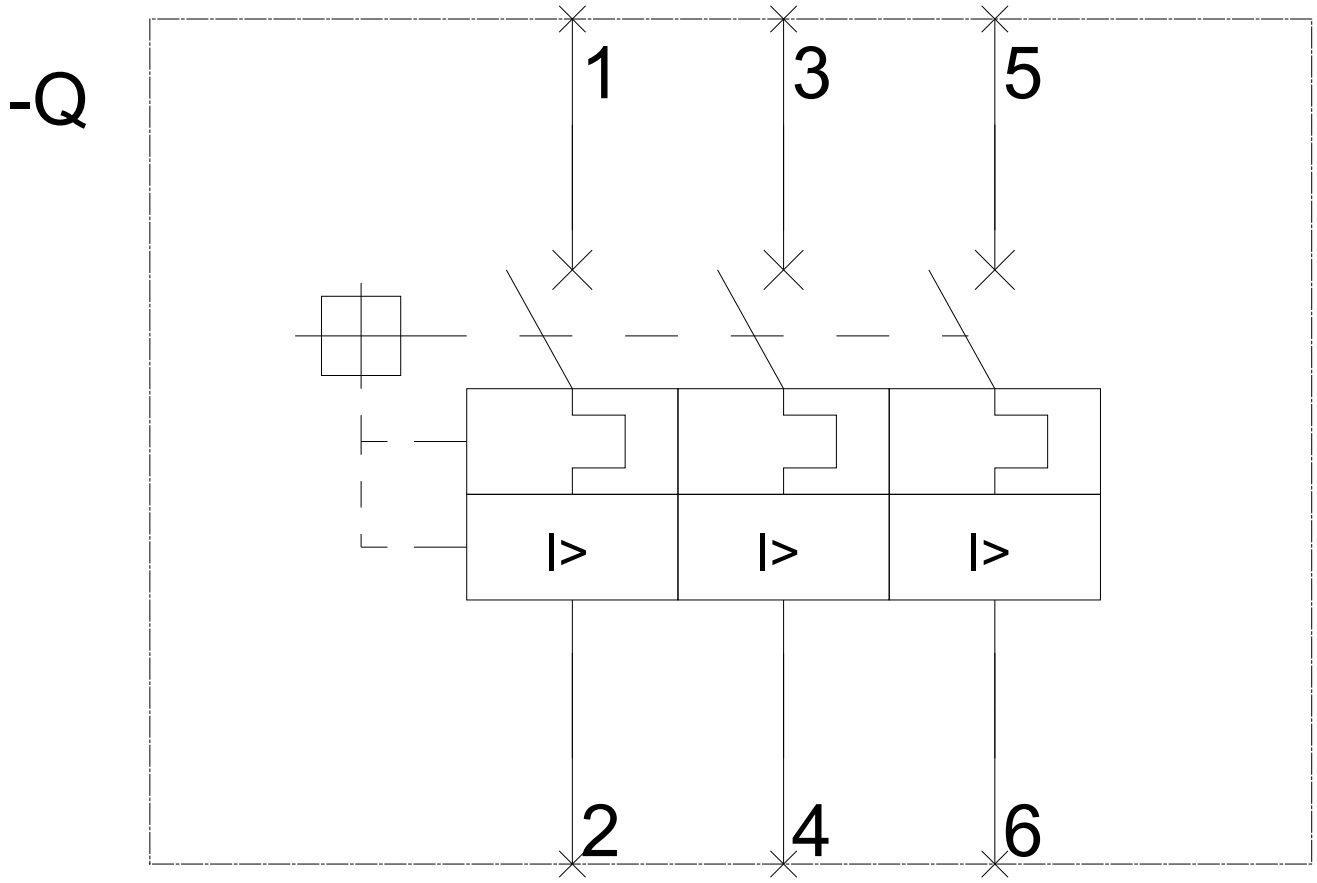








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